

SEQUENCE LISTING

<110> Soppet et al.

<120> G-Protein Parathyroid Hormone Receptor HLTDG74

<130> PF201D1

<140> 09/236,468

<141> 1999-01-25

<150> 08/468,011

<151> 1995-06-06

<160> 28

<170> PatentIn Ver. 2.1

<210> 1

<211> 2003

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (90)..(1715)

<400> 1

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Met Ala Trp Leu Gly Ala Ser Leu
1 5

cac gtc tgg ggt tgg cta atg ctc ggc agc tgc ctc ctg gcc aga gcc 161
His Val Trp Gly Trp Leu Met Leu Gly Ser Cys Leu Leu Ala Arg Ala
10 15 20

cag ctg gat tct gat ggc acc atc act ata gag gag cag att gtc ctt 209
Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ile Val Leu
25 30 35 40

gtg ctg aaa gcg aaa gta caa tgt gaa ctc aac atc aca gct caa ctc 257
Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln Leu
45 50 55

cag gag gga gaa ggt aat tgt ttc cct gaa tgg gat gga ctc att tgt 305
Gln Glu Gly Glu Gly Asn Cys Phe Pro Glu Trp Asp Gly Leu Ile Cys
60 65 70

tgg ccc aga gga aca gtg ggg aaa ata tgc gct gtt cca tgc cct cct 353
Trp Pro Arg Gly Thr Val Gly Lys Ile Ser Ala Val Pro Cys Pro Pro
75 80 85

tat att tat gac ttc aac cat aaa gga gtt gct ttc cga cac tgt aac 401
Tyr Ile Tyr Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn
90 95 100

ccc aat gga aca tgg gat ttt atg cac agc tta aat aaa aca tgg gcc 449
Pro Asn Gly Thr Trp Asp Phe Met His Ser Leu Asn Lys Thr Trp Ala
105 110 115 120

aat tat tca gac tgc ctt cgc ttt ctg cag cca gat atc agc ata gga	497
Asn Tyr Ser Asp Cys Leu Arg Phe Leu Gln Pro Asp Ile Ser Ile Gly	
125 130 135	
aag caa gaa ttc tgt gaa cgc ctc tat gta atg tat acc gtt ggc tac	545
Lys Gln Glu Phe Cys Glu Arg Leu Tyr Val Met Tyr Thr Val Gly Tyr	
140 145 150	
tcc atc tct ttt ggt tcc ttg gct gtg gct att ctc atc att ggt tac	593
Ser Ile Ser Phe Gly Ser Leu Ala Val Ala Ile Leu Ile Ile Gly Tyr	
155 160 165	
ttc aga cga ttg cat tgc act agg aac tat atc cac atg cac tta ttt	641
Phe Arg Arg Leu His Cys Thr Arg Asn Tyr Ile His Met His Leu Phe	
170 175 180	
gtg tct ttc atg ctg aga gct aca agc atc ttt gtc aaa gac aga gta	689
Val Ser Phe Met Leu Arg Ala Thr Ser Ile Phe Val Lys Asp Arg Val	
185 190 195 200	
gtc cat gct cac ata gga gta aag gag ctg gag tcc cta ata atg cag	737
Val His Ala His Ile Gly Val Lys Glu Leu Glu Ser Leu Ile Met Gln	
205 210 215	
gat gac cca caa aat tcc att gag gca act tct gtg gac aaa tca caa	785
Asp Asp Pro Gln Asn Ser Ile Glu Ala Thr Ser Val Asp Lys Ser Gln	
220 225 230	
tat atc ggg tgc aag att gct gtt gtg atg ttt att tac ttc ctg gct	833
Tyr Ile Gly Cys Lys Ile Ala Val Val Met Phe Ile Tyr Phe Leu Ala	
235 240 245	
aca aat tat tat tgg atc ctg gtg gaa ggt ctc tac ctg cat aat ctc	881
Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu Tyr Leu His Asn Leu	
250 255 260	
atc ttt gtg gct ttc ttt tcg gac acc aaa tac ctg tgg ggc ttc atc	929
Ile Phe Val Ala Phe Phe Ser Asp Thr Lys Tyr Leu Trp Gly Phe Ile	
265 270 275 280	
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Leu Ile Gly Trp Gly Phe Pro Ala Ala Phe Val Ala Ala Trp Ala Val	
285 290 295	
gca cga gca act ctg gct gat gcg agg tgc tgg gaa ctt agt gct gga	1025
Ala Arg Ala Thr Leu Ala Asp Ala Arg Cys Trp Glu Leu Ser Ala Gly	
300 305 310	
gac atc aag tgg att tat caa gca ccg atc tta gca gct att ggg ctg	1073
Asp Ile Lys Trp Ile Tyr Gln Ala Pro Ile Leu Ala Ala Ile Gly Leu	
315 320 325	
aat ttt att ctg ttt ctg aat acg gtt aga gtt cta gct acc aaa atc	1121
Asn Phe Ile Leu Phe Leu Asn Thr Val Arg Val Leu Ala Thr Lys Ile	
330 335 340	
tgg gag acc aat gca gtt ggg cat gac aca agg aag caa tac agg aaa	1169
Trp Glu Thr Asn Ala Val Gly His Asp Thr Arg Lys Gln Tyr Arg Lys	
345 350 355 360	

ctg gcc aaa tcg aca ctg gtc ctg gtc cta gtc ttt gga gtg cat tac 1217
 Leu Ala Lys Ser Thr Leu Val Leu Val Leu Val Phe Gly Val His Tyr
 365 370 375

atc gtg ttc gtg tgc ctg cct cac tcc ttc act ggg ctc ggg tgg gag 1265
 Ile Val Phe Val Cys Leu Pro His Ser Phe Thr Gly Leu Gly Trp Glu
 380 385 390

atc cgc atg cac tgt gag ctc ttc ttc aac tcc ttt cag ggt ttc ttt 1313
 Ile Arg Met His Cys Glu Leu Phe Phe Asn Ser Phe Gln Gly Phe Phe
 395 400 405

gtg tct atc atc tac tgc tac tgc aat gga gag gtt cag gca gag gtg 1361
 Val Ser Ile Ile Tyr Cys Tyr Cys Asn Gly Glu Val Gln Ala Glu Val
 410 415 420

aag aag atg tgg agt cgg tgg aat ctc tcc gtg gac tgg aaa agg aca 1409
 Lys Lys Met Trp Ser Arg Trp Asn Leu Ser Val Asp Trp Lys Arg Thr
 425 430 435 440

ccg cca tgt ggc agc cgc aga tgc ggc tca gtg ctc acc acc gtg acg 1457
 Pro Pro Cys Gly Ser Arg Arg Cys Gly Ser Val Leu Thr Thr Val Thr
 445 450 455

cac agc acc agc agc cag tca cag gtg gcg gca gca cac gca tgg tgc 1505
 His Ser Thr Ser Ser Gln Ser Gln Val Ala Ala Ala His Ala Trp Cys
 460 465 470

tta tct ctg gca aag ctg cca aga tgc cca gca gac agc ctg aca gcc 1553
 Leu Ser Leu Ala Lys Leu Pro Arg Ser Pro Ala Asp Ser Leu Thr Ala
 475 480 485

aca tca ctt tac ctg gct atg tct gga gta act cag agc agg act gcc 1601
 Thr Ser Leu Tyr Leu Ala Met Ser Gly Val Thr Gln Ser Arg Thr Ala
 490 495 500

tca cac act ctc tcc acg agg agc aac aag gaa gat agt ggg agg cag 1649
 Ser His Thr Leu Ser Thr Arg Ser Asn Lys Glu Asp Ser Gly Arg Gln
 505 510 515 520

aga gat gat att cta atg gag aag cct tcc agg cct atg gaa tct aac 1697
 Arg Asp Asp Ile Leu Met Glu Lys Pro Ser Arg Pro Met Glu Ser Asn
 525 530 535

cca gac act gaa gga tgacaaggag aaactgagga tgttctctga atggacatgt 1752
 Pro Asp Thr Glu Gly
 540

gtggctgact ttcattgggct ggtccaatgg ctgggtgtgt gagagggcct ggctgatact 1812

cctatgcttg agcaciaagg ctgaaaattc agttaagggtg ttacttaata atagttttta 1872

ggctccatga attggctcct gtaaatacta acgacatgaa aatgcaagtg tcaatggagt 1932

agtttattac cttctattgg catcaagttt tcttctaaat taatgtatgg tatttgctct 1992

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<210> 2
 <211> 541
 <212> PRT
 <213> Homo sapiens

<400> 2
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 1 5 10 15
 Gly Ser Cys Leu Leu Ala Arg Ala Gln Leu Asp Ser Asp Gly Thr Ile
 20 25 30
 Thr Ile Glu Glu Gln Ile Val Leu Val Leu Lys Ala Lys Val Gln Cys
 35 40 45
 Glu Leu Asn Ile Thr Ala Gln Leu Gln Glu Gly Glu Gly Asn Cys Phe
 50 55 60
 Pro Glu Trp Asp Gly Leu Ile Cys Trp Pro Arg Gly Thr Val Gly Lys
 65 70 75 80
 Ile Ser Ala Val Pro Cys Pro Pro Tyr Ile Tyr Asp Phe Asn His Lys
 85 90 95
 Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly Thr Trp Asp Phe Met
 100 105 110
 His Ser Leu Asn Lys Thr Trp Ala Asn Tyr Ser Asp Cys Leu Arg Phe
 115 120 125
 Leu Gln Pro Asp Ile Ser Ile Gly Lys Gln Glu Phe Cys Glu Arg Leu
 130 135 140
 Tyr Val Met Tyr Thr Val Gly Tyr Ser Ile Ser Phe Gly Ser Leu Ala
 145 150 155 160
 Val Ala Ile Leu Ile Ile Gly Tyr Phe Arg Arg Leu His Cys Thr Arg
 165 170 175
 Asn Tyr Ile His Met His Leu Phe Val Ser Phe Met Leu Arg Ala Thr
 180 185 190
 Ser Ile Phe Val Lys Asp Arg Val Val His Ala His Ile Gly Val Lys
 195 200 205
 Glu Leu Glu Ser Leu Ile Met Gln Asp Asp Pro Gln Asn Ser Ile Glu
 210 215 220
 Ala Thr Ser Val Asp Lys Ser Gln Tyr Ile Gly Cys Lys Ile Ala Val
 225 230 235 240
 Val Met Phe Ile Tyr Phe Leu Ala Thr Asn Tyr Tyr Trp Ile Leu Val
 245 250 255
 Glu Gly Leu Tyr Leu His Asn Leu Ile Phe Val Ala Phe Phe Ser Asp
 260 265 270
 Thr Lys Tyr Leu Trp Gly Phe Ile Leu Ile Gly Trp Gly Phe Pro Ala
 275 280 285
 Ala Phe Val Ala Ala Trp Ala Val Ala Arg Ala Thr Leu Ala Asp Ala

290	295	300
Arg Cys Trp Glu Leu Ser Ala Gly Asp Ile Lys Trp Ile Tyr Gln Ala 305 310 315 320		
Pro Ile Leu Ala Ala Ile Gly Leu Asn Phe Ile Leu Phe Leu Asn Thr 325 330 335		
Val Arg Val Leu Ala Thr Lys Ile Trp Glu Thr Asn Ala Val Gly His 340 345 350		
Asp Thr Arg Lys Gln Tyr Arg Lys Leu Ala Lys Ser Thr Leu Val Leu 355 360 365		
Val Leu Val Phe Gly Val His Tyr Ile Val Phe Val Cys Leu Pro His 370 375 380		
Ser Phe Thr Gly Leu Gly Trp Glu Ile Arg Met His Cys Glu Leu Phe 385 390 395 400		
Phe Asn Ser Phe Gln Gly Phe Phe Val Ser Ile Ile Tyr Cys Tyr Cys 405 410 415		
Asn Gly Glu Val Gln Ala Glu Val Lys Lys Met Trp Ser Arg Trp Asn 420 425 430		
Leu Ser Val Asp Trp Lys Arg Thr Pro Pro Cys Gly Ser Arg Arg Cys 435 440 445		
Gly Ser Val Leu Thr Thr Val Thr His Ser Thr Ser Ser Gln Ser Gln 450 455 460		
Val Ala Ala Ala His Ala Trp Cys Leu Ser Leu Ala Lys Leu Pro Arg 465 470 475 480		
Ser Pro Ala Asp Ser Leu Thr Ala Thr Ser Leu Tyr Leu Ala Met Ser 485 490 495		
Gly Val Thr Gln Ser Arg Thr Ala Ser His Thr Leu Ser Thr Arg Ser 500 505 510		
Asn Lys Glu Asp Ser Gly Arg Gln Arg Asp Asp Ile Leu Met Glu Lys 515 520 525		
Pro Ser Arg Pro Met Glu Ser Asn Pro Asp Thr Glu Gly 530 535 540		

<210> 3
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> This 5' primer sequence contains a SmaI restriction
 enzyme site followed by nucleotides corresponding to PTH receptor
 coding sequence.

<400> 3
cagccgtccc gggcttgccc tgg 23

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> This 3' primer sequence contains a SalI restriction enzyme site and a sequence complementary to the human PTH receptor.

<400> 4
cctcagtgtc gacttgatcat ccttcag 27

<210> 5
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> This 5' primer contains a HindIII restriction enzyme site and a nucleotide sequence corresponding to the 5' UTR of the cDNA encoding human PTH receptor.

<400> 5
gttgcatat tggaagcttt ttgcggg 27

<210> 6
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> This 3' primer sequence contains an XbaI restriction enzyme site, a translation stop codon, and nucleotides complementary to the human PTH receptor coding sequence.

<400> 6
cagtttctag atgtcatcct tcagtgtc 28

<210> 7
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> This 5' primer contains a SmaI restriction enzyme site, a nucleotide sequence to provide efficient initiation of translation in eukaryotic cells, and a nucleotide sequence corresponding to the human PTH receptor cDNA, including an initiation codon.

<400> 7
tcctaccg ggcgccatca tggcctggct ggggggcct 39

<210> 8
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> This 3' primer contains an XbaI restriction enzyme site and a nucleotide sequence complementary to the 3' untranslated region of the PTH receptor cDNA.

<400> 8
cagtttctag atgtcatcct tcagtgtc 28

<210> 9
<211> 60
<212> PRT
<213> Homo sapiens

<400> 9
Ile Met Gln Asp Asp Pro Gln Asn Ser Ile Glu Ala Thr Ser Val Asp
1 5 10 15
Lys Ser Gln Tyr Ile Gly Cys Lys Ile Ala Val Val Met Phe Ile Tyr
20 25 30
Phe Leu Ala Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu Tyr Leu
35 40 45
His Asn Leu Ile Phe Val Ala Phe Phe Ser Asp Thr
50 55 60

<210> 10
<211> 60
<212> PRT
<213> Didelphis virginiana

<400> 10
Ile Thr Glu Glu Glu Leu Arg Ala Phe Thr Glu Pro Pro Pro Ala Asp
1 5 10 15
Lys Ala Gly Phe Val Gly Cys Arg Val Ala Val Thr Val Phe Leu Tyr
20 25 30
Phe Leu Thr Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu Tyr Leu
35 40 45
His Ser Leu Ile Phe Met Ala Phe Phe Ser Glu Lys
50 55 60

<210> 11
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 11
 Lys Tyr Leu Trp Gly Phe Ile Leu Ile Gly Trp Gly Phe Pro Ala Ala
 1 5 10 15
 Phe Val Ala Ala Trp Ala Val Ala Arg Ala Thr Leu Ala Asp Ala Arg
 20 25 30
 Cys Trp Glu Leu Ser Ala Gly Asp Ile Lys Trp Ile Tyr Gln Ala Pro
 35 40 45
 Ile Leu Ala Ala Ile Gly Leu Asn Phe Ile Leu Phe
 50 55 60

<210> 12
 <211> 60
 <212> PRT
 <213> Didelphis virginiana

<400> 12
 Lys Tyr Leu Trp Gly Phe Thr Leu Phe Gly Trp Gly Leu Pro Ala Val
 1 5 10 15
 Phe Val Ala Val Trp Val Thr Val Arg Ala Thr Leu Ala Asn Thr Glu
 20 25 30
 Cys Trp Asp Leu Ser Ser Gly Asn Lys Lys Trp Ile Ile Gln Val Pro
 35 40 45
 Ile Leu Ala Ala Ile Val Val Asn Phe Ile Leu Phe
 50 55 60

<210> 13
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 13
 Leu Asn Thr Val Arg Val Leu Ala Thr Lys Ile Trp Glu Thr Asn Ala
 1 5 10 15
 Val Gly His Asp Thr Arg Lys Gln Tyr Arg Lys Leu Ala Lys Ser Thr
 20 25 30
 Leu Val Leu Val Leu Val Phe Gly Val His Tyr Ile Val Phe Val Cys
 35 40 45
 Leu Pro His Ser
 50

<210> 14
 <211> 52
 <212> PRT
 <213> Didelphis virginiana

<400> 14
 Ile Asn Ile Ile Arg Val Leu Ala Thr Lys Leu Arg Glu Thr Asn Ala
 1 5 10 15
 Gly Arg Cys Asp Thr Arg Gln Gln Tyr Arg Lys Leu Leu Lys Ser Thr
 20 25 30
 Leu Val Leu Met Pro Leu Phe Gly Val His Tyr Ile Val Phe Met Ala
 35 40 45
 Thr Pro Tyr Thr
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<210> 15
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 15
 Glu Gly Asn Cys Phe Pro Glu Trp Asp Gly Leu Ile Cys Trp Pro Arg
 1 5 10 15
 Gly Thr Val Gly Lys Ile Ser Ala Val Pro Cys Pro Pro Tyr Ile Tyr
 20 25 30
 Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly
 35 40 45
 Thr Trp Asp Phe Met His Ser Leu Asn Lys Thr Trp
 50 55 60

<210> 16
 <211> 60
 <212> PRT
 <213> Didelphis virginiana

<400> 16
 Asp Gly Phe Cys Leu Pro Glu Trp Asp Asn Ile Val Cys Trp Pro Ala
 1 5 10 15
 Gly Val Pro Gly Lys Val Val Ala Val Pro Cys Pro Asp Tyr Ile Tyr
 20 25 30
 Asp Phe Asn His Lys Gly Arg Ala Tyr Arg Arg Cys Asp Ser Asn Gly
 35 40 45
 Ser Trp Glu Leu Val Pro Gly Asn Asn Arg Thr Trp
 50 55 60

<210> 17
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 17
 Ala Asn Tyr Ser Asp Cys Leu Arg Phe Leu
 1 5 10

<210> 18
 <211> 10
 <212> PRT
 <213> Didelphis virginiana

<400> 18
 Ala Asn Tyr Ser Glu Cys Val Lys Phe Leu
 1 5 10

<210> 19
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 19
 Lys Gln Glu Phe Cys Glu Arg Leu Tyr Val Met Tyr Thr Val Gly Tyr
 1 5 10 15
 Ser Ile Ser Phe Gly Ser Leu Ala Val Ala Ile Leu Ile Ile Gly Tyr
 20 25 30
 Phe Arg Arg Leu His Cys Thr Arg Asn Tyr Ile His Met His Leu Phe
 35 40 45
 Val Ser Phe Met Leu Arg Ala Thr Ser Ile Phe Val
 50 55 60

<210> 20
 <211> 60
 <212> PRT
 <213> Didelphis virginiana

<400> 20
 Glu Arg Glu Val Phe Asp Arg Leu Gly Met Ile Tyr Thr Val Gly Tyr
 1 5 10 15
 Ser Ile Ser Leu Gly Ser Leu Thr Val Ala Val Leu Ile Leu Gly Tyr
 20 25 30
 Phe Arg Arg Leu His Cys Thr Arg Asn Tyr Ile His Met His Leu Phe
 35 40 45
 Val Ser Phe Met Leu Arg Ala Val Ser Ile Phe Ile
 50 55 60

<210> 21
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 21
 Lys Asp Arg Val Val His Ala His Ile Gly Val Lys Glu Leu Glu Ser
 1 5 10 15
 Leu Ile Met Gln Asp
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<210> 22
 <211> 21
 <212> PRT
 <213> Didelphis virginiana

<400> 22
 Lys Asp Ala Val Leu Tyr Ser Gly Val Ser Thr Asp Glu Ile Glu Arg
 1 5 10 15
 Ile Thr Glu Glu Glu
 20

<210> 23
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 23
 Thr Gly Leu Gly Trp Glu Ile Arg Met His Cys Glu Leu Phe Phe Asn
 1 5 10 15
 Ser Phe Gln Gly Phe Phe Val Ser Ile Ile Tyr Cys Tyr Cys Asn Gly
 20 25 30
 Glu Val Gln Ala Glu Val Lys Lys Met Trp Ser Arg Trp Asn Leu Ser
 35 40 45
 Val Asp Trp Lys Arg Thr Pro Pro Cys Gly Ser
 50 55

<210> 24
 <211> 59
 <212> PRT
 <213> Didelphis virginiana

<400> 24
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 1 5 10 15
 Ser Phe Gln Gly Phe Phe Val Ala Ile Ile Tyr Cys Phe Cys Asn Gly
 20 25 30
 Glu Val Gln Ala Glu Ile Lys Lys Ser Trp Ser Arg Trp Thr Leu Ala
 35 40 45

Leu Asp Phe Lys Arg Lys Ala Arg Ser Gly Ser
50 55

<210> 25
<211> 37
<212> PRT
<213> Homo sapiens

<400> 25
Ala Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ile Val
1 5 10 15

Leu Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln
20 25 30

Leu Gln Glu Gly Glu
35

<210> 26
<211> 37
<212> PRT
<213> Didelphis virginiana

<400> 26
Ala Leu Val Asp Ala Asp Asp Val Ile Thr Lys Glu Glu Gln Ile Ile
1 5 10 15

Leu Leu Arg Asn Ala Gln Ala Gln Cys Glu Gln Arg Leu Lys Glu Val
20 25 30

Leu Arg Val Pro Glu
35

<210> 27
<211> 23
<212> PRT
<213> Homo sapiens

<400> 27
Ile Ser Gly Lys Ala Ala Lys Ile Ala Ser Arg Gln Pro Asp Ser His
1 5 10 15

Ile Thr Leu Pro Gly Tyr Val
20

<210> 28
<211> 23
<212> PRT
<213> Didelphis virginiana

<400> 28
Leu Ser Pro Arg Leu Ala Pro Gly Ala Gly Ala Ser Ala Asn Gly His
1 5 10 15

His Gln Leu Pro Gly Tyr Val
20